ABSTRACT

TETRACYCLIC DERIVATIVES, PROCESS OF PREPARATION AND USE

5 A compound of formula (I)

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and salts and solvates thereof, in which:

R^o represents hydrogen, halogen or C₁₋₆ alkyl;

R¹ represents hydrogen, C₁₋₆alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, haloC₁₋₆alkyl, C₃₋₈cycloalkylC₁₋₃alkyl, arylC₁₋₃alkyl or heteroarylC₁₋₃alkyl;

R² represents an optionally substituted monocyclic aromatic ring selected from benzene, thiophene, furan and pyridine or an optionally substituted bicyclic ring

attached to the rest of the molecule via one of the benzene ring carbon atoms and wherein the fused ring A is a 5- or 6-membered ring which may be saturated or partially or fully unsaturated and comprises carbon atoms and optionally one or two heteroatoms selected from oxygen, sulphur and nitrogen; and

R³ represents hydrogen or C₁₋₃ alkyl, or R¹ and R³ together represent a 3- or 4-membered alkyl or alkenyl chain.

A compound of formula (I) is a potent and selective inhibitor of cyclic guanosine 3', 5'-monophosphate specific phosphodiesterase (cGMP specific PDE) having a utility in a variety of therapeutic areas where such inhibition is beneficial, including the treatment of cardiovascular disorders.